Vol. XXVII
No. 2
JAN. 12
1918

HORTICULTURE

Malus floribunda

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Principles and Practice of Pruning

By M. G. KAINS
Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion at horticultural meetings, in classrooms, demonstrations, etc.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story, because the legends beneath the majority of these pictures were written from the specimens themselves and not from the photo.

After a few pages of introduction the author discusses Plant Physiology as related to pruning in such simple language that every one will get a clear idea of the Principles of Pruning stated and explained in a succeeding chapter. In order to silence argument a chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

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PROPOSED QUARANTINE AGAINST FOREIGN PLANT INTRODUCTIONS

Extracts From an Address Before a Meeting of Horticultural Inspectors by J. G. Sanders, at Harrisburg, Pa.

The American citizen, whether producer or consumer, undoubtedly pays the heaviest tax of any person in the entire world for destruction caused by insect pests and plant diseases. The principal contributing factor to this condition is the fact that we have permitted the importation to America of very many dangerous insects and plant diseases from foreign countries, which have been introduced by various methods and means, usually accidentally. We have maintained an open door for the unrestricted importation of plants in living condition from foreign countries, without adequate methods for inspection. Furthermore, the amount of plant importation has been so great and the quantity so large, that it is absolutely impossible for any corps of inspectors to adequately inspect this material for dangerous insects and plant diseases.

Too great dependence has been placed on foreign countries for a supply of plant material which could fully as well be produced in this country, and it seems just now the time has come when our American horticulturists should rise to the occasion, and produce those plants which have been imported from foreign countries, insofar as climate and cost permit.

The tremendous number of very serious and destructive insect pests and plant diseases that have already been introduced into America are slight compared with the potentialities still remaining in foreign countries that have not yet been introduced. As a matter of fact only a small percentage of the dangerous and destructive pests of foreign countries have gained a foothold in America, although under the present system of heavy introduction of plant material, large numbers of these pests are being annually imported and are becoming established. Every year we find several new pests which have been established at some previous date, and have multiplied to such an extent that they have been brought to the notice of scientists and trained observers.

Not only the producers, but surely the consumers as well, must in the final analysis pay for the tremendous losses which are incurred and the burden has now become so great that very general and powerful sentiment is growing among farmers and fruit growers everywhere, that action of a drastic nature must be taken to prevent the further introduction of plant pests. If some step is not taken in the near future the aggregate damage from pests already introduced, and those which are sure of introduction under the present system will be overwhelming. We have had considerable agitation along the line of plant importation during the past few years, but no sufficiently drastic action has been taken to prevent the annual introduction of several new pests, which have very marked power for destruction. It does seem that the entire policy of plant importation is wrong, and should be altered at once. Genuine attempts have not been made on the part of horticulturists in this country to produce the stock which they now buy from Europe at much reduced figures. If we will consider the total value of the nursery stock, exclusive of bulbs, roots and tubers, each year, we find that it averages approximately a million and a quarter dollars annually through the past ten years. In fact, the average value for the past ten years has been one million two hundred thousand dollars, making a total of twelve million dollars of nursery stock imported through the past ten years. When we consider that the gipsy moth alone has cost the New England States approximately fourteen million dollars, since its introduction into America, for treatment and suppression, exclusive of the damage it has caused, can we say that the further importation of plants under the present arrangement is economic?

The elimination of other regions of the world, excepting Europe, would work to our advantage to a wonderful degree to lessening the danger of pest importation. Nevertheless in Europe there are very many dangerous and destructive pests attacking a wide range of commercial and ornamental plants, so that tremendous danger still lies in importation of any character from that region. About four years ago this body passed a resolution calling on the Federal Congress to prohibit the further importation of plants with earth about the roots. On account of the tremendous weight and mass of such material, which comes to America within a short period of two shipping seasons, it is absolutely impossible for even well-trained inspectors to thoroughly inspect such material. Unknown insects lie dormant, hidden away in the soil about the roots of plants—probably some which have no connection whatever with the plant being inspected, but have entered the soil for pupation and hibernation, having dropped or crawled from other trees or plants in the vicinity, and have been accidentally taken up with the plants for importation.

In considering the possibilities of pest importation in soil about the roots of plants, we must bear in mind that the majority of plants brought in from Europe with balls of earth about the roots are dug late in the autumn, at a time when a majority of the insects have entered hibernating quarters, and as we all know the probability of finding our various well known insects in winter quarters in this country is slight, just so we should remember the possibility of finding imported insects in hibernating quarters in soil brought in with plants from Europe is slight. Therefore, we have several factors acting against the inspector and in favor of the probable introduction of pests, namely, the hibernating habits of the pests in the soil, and the fact that very large quantities of such material—even amounting to many tons, arrive oftentimes in single shipments, and the possibility of large shipments coming within a very short period of time, taxes the inspectors to the utmost. Those of us who have had much experience in inspecting foreign importations, especially large importations, can certify to the absolute impossibility of careful inspection of large shipments. The only wonder is that we have not introduced and established more insect pests and plant diseases than have already arrived.

CLOSING LARGE COUNTRY HOMES.

Following the example set by other millionaires, wealthy people owning estates in Dutchess county, New York, have closed their homes for the winter so as to assist in the conservation of coal. Vincent Astor's beautiful residence at Rhinebeck is closed while employees on the estate are burning wood for fuel in the place of coal. The Frederick W. Vanderbilt mansion, Hyde Park, is closed for the winter while Colonel Archibald Rogers, whose residence, "Crumwold Hall," in that village, has closed his greenhouses in order that coal may be saved. Levi P. Morton's estate, "Ellreslie," near Rhinebeck, is closed as are the Redmond mansion in Tivoli, the two Miller residences in Rhinebeck and Mrs. Morgan's place at Staatsburgh. Jacob Ruppert's mansion between Staatsburgh and Rhinebeck is also closed. The Stephen Olin place in Rhinebeck and four houses in Hyde Park—the James Roosevelt, the T. J. Newbold, the Roosevelt and the Howard place are also closed for the winter.

HORTICULTURE

VOL. XXVII JANUARY 12, 1918 NO. 2

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

WM. J. STEWART, Editor and Manager
Telephone, Beach 292

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.25

Discount on Contracts for consecutive insertions, as follows: One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, not consecutive, rates on application.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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A memorable week

The first week of 1918 has provided an abundant supply of anxiety and sensation for the horticultural people. With the wholesale cut flower establishments of the metropolis deprived of heat and water for days in succession, Chicago buried under a phenomenal snowfall, greenhouse ranges in many sections crushed or frozen up and contents annihilated for lack of fuel, flower shipments spoiled in transit and lily bulbs arriving in ruined condition after a prolonged transcontinental trip in zero weather, we have a most remarkable concatenation of untoward circumstances which certainly gives us sufficient cause to vividly remember this extraordinary period. The unprecedented term of severe cold could hardly have been planned with greater exactitude to catch the greenhouse industry in a helpless predicament. Acting on the advice of the fuel administrator and, in many instances influenced further by their own judgment of the situation as regards fuel and the business outlook, not a few growers had already shut down sections of their establishments and still further reductions in operation were contemplated to follow the holiday cleanup and by this means the coal on hand had been variously estimated as sufficient to carry the reduced area through for a month or two. But the grievous arctic visitation knocked all such calculation in the head, paralyzing every source of supply, and thus most effectually compelling compliance with the injunction to materially reduce the flower product.

Damage widespread

The list of glass houses reported frozen up and crops destroyed during the past ten days is a lengthy one and includes not only small establishments which were the sole or principal means of support for their hard-working owners and their families, but many also of the big flower "factories" in which large capital is invested and considerable labor is employed. In consideration of the circumstances as they impress us we have hesitated about publishing a list of the names of these sufferers as news matter at the present time and have about come to the conclusion that the publication of such details of widespread misfortune would most likely only serve to aggravate the seriousness of the hardship in many cases. For this reason we have thought it best to omit from our news columns most of the reports that have come to us of the individual damage inflicted, feeling also that these reports might in some instances have been exaggerated and the direct loss greatly overestimated, and hoping that in time this may prove to have been the case.

A temporary quiet

The first half of January has long been recognized as a very lean period in every form of horticultural industry. Everyone is moved to stop and gather himself together, as it were, sum up the year's business results, get accounts straightened out, take inventory and formulate plans for the coming year. The florist usually finds the public disposed to take a rest after the holiday spending and excitement and a week or two more or less usually passes before things start to speed up for the midwinter season. There is reason to believe that, even in the exceptional conditions that now prevail, the usual livening-up process will duly take place and the apathy which is disturbing the minds of many in the trade at present will be only short-lived and will pass off with the coming of better weather and the systematic stabiliment of general business under the new order of things which is being gradually worked out. That the direct effect of the recent havoc will then be materialized in a greatly curtailed flower product and actual scarcity in some places, with much higher market values than in recent years, is quite possible. Greenhouses that have been dismantled now are most likely to be devoted to the production of food crops and young vegetable plants for spring requirements when they are again started up and will thus be wholly eliminated from the flower market field for this season at least.

THE MALUSES

(See Cover Illustration)

Crab-apples. These plants for the decoration of northern gardens are of first-rate importance, and from its early days much attention has been paid at the Arnold Arboretum to the collection and study of the different species, hybrids and varieties. The flowering of the Crab-apples is one of the important Arboretum events and, although the season is ten or twelve days late, some of the Asiatic species are already in bloom and during three or four weeks Apple blossoms can be seen here.

From the Crab-apple of southeastern Europe and western and central Asia (*Malus pumilo*) most of the Apples of our orchards have been developed, although in some of these the blood of the Crab of northern and central Europe (*Malus sylvestris*) can be traced. The Paradise Apple is a very dwarf form of *Malus pumila* used by nurserymen as a stock for dwarf pomological varieties. The first of the Crab-apples of eastern Asia known to Europeans (*Malus baccata*) was first cultivated in Europe one hundred and thirty years ago. It is a native of eastern Siberia, and is a tall, narrow tree with large white flowers appearing with the leaves, and fruit the size of a large pea. The Siberian Crab, as it is popularly called, is a handsome, very hardy plant; its great value, however, is that, crossed with the cultivated Apple-tree, it has given rise to a race of Apples like the Hyslop and the Transcendent Crabs which can be grown in regions too cold for the successful cultivation of the ordinary Apple. The hybrids are known as Siberian Crabs, and many named varieties can now be found in nurseries in the extreme northern part of the country. They are fast growing, erect and shapely trees, and well worth a place in northern gardens for the beauty of their flowers and brilliant scarlet or yellow fruits which are usually oblong or ovate in shape and from an inch to an inch and half in length. The fruit is acid but makes excellent jellies and preserves for which it is largely used. *Malus baccata* has been used in cold regions as a stock on which to graft the ordinary Apple, but its liability to the blight which attacks Pear-trees reduces its value for this purpose. The largest specimen of *Malus baccata* in the neighborhood of Boston is standing in front of the gardener's house in the Harvard Botanic Garden in Cambridge.

One of the handsomest of the Crab-apples in the Arboretum collection is a Korean variety of *Malus baccata* which has been distinguished as var. *Jackii*. It was raised here in 1905 from seed collected by Mr. Jack near Seoul. The plants, although still small, are shapely in habit with straight clean stems and regularly spaced spreading branches; the leaves are thick, long-stalked, from four to six inches in length, dark dull green above and pale below; the flowers are pure white and nearly two inches in diameter, and the dark crimson shining fruits, which are often half an inch long, hang gracefully on long drooping stems. A widely distributed form of *Malus baccata*, the var. *mandshurica*, differs in its broader, more or less hairy leaves. This tree is distributed from the Amoor region to western China and Japan where it is common northward, and in Hokkaido is often found in Alder woods in the neighborhood of the coast.

Malus prunifolia. In one of its forms (var. *rinki*) this tree has been the most economically valuable of all the Asiatic Apple-trees. *Malus prunifolia*, although it has been known in western gardens for many years, is still unknown as a wild plant, but Wilson found growing wild its variety *rinki* in central and western China. This variety differs from *Malus prunifolia* in the shape of the leaves and the amount of their hairy covering, and in the shape and color of the fruit which varies from greenish yellow to yellow or red. This is the Apple which has been cultivated by the Chinese probably for centuries. The fruit of the cultivated tree seen by Wilson was rarely more than an inch and a quarter in diameter, green or greenish yellow with a rosy cheek, or sometimes almost entirely red and had a pleasant bitter-sweet flavor. He found that the fruit grown in the cold region near the Tibetan border was of better quality than that produced in the warmer regions further east. Until the coming of foreigners into Japan introduced American and European varieties of Apples the var. *rinki* was a commonly cultivated fruit tree in Hondo, although now it has almost entirely disappeared from Japan.

Only the Apples already mentioned, *Malus sylvestris* of western and northern Europe, *M. pumila* of southeastern Europe and western and central Asia, *M. baccata* of eastern Siberia, *M. prunifolia*, var. *rinki* of western China, and the species of eastern North America are of economic importance to man. The fruits of the last are sometimes used domestically in making jellies and preserves but are not in very general use. All the other Crab-apples are only valuable for the beauty of their flowers and fruits in the decoration of gardens. The American Crab-apple bloom later than the Old World species, and their flowers do not open until the leaves are well grown. The flowers are more or less deeply tinged with pink or rose color and are exceedingly fragrant. The fruits of the eastern species are depressed-globose, light green, sometimes turning pale yellow when fully ripe, lustrous, covered with a waxy exudation, and more fragrant than the fruit of other Apple-trees. The fruit falls without having become soft, and remains on the ground a long time without losing its shape. The fruit of the north-northwestern species (*M. fusca*) is oblong, not more than three-quarters of an inch in length, yellow-green or yellow often flushed with red, or occasionally entirely red. The flesh of this little apple is thin and dry.

The American Crab-apples are good plants for wood borders and forest glades, and can be used to advantage with the Flowering Dogwood (*Cornus florida*), the different Shade Bushes (*Amelanchier*), and some of the American Hawthorns to enliven forest parks and country roadsides. American Crap-apples, however, are still little known or appreciated by American gardeners, and only one of them, the so-called Bechtel Crab, a double-flowered form of *M. ioensis* of the Mississippi Valley, is found in American nurseries. The flowers of this tree resemble small double pink roses and attract more attention than almost any other plant in the Arboretum. Among the handsomest of the species

INDEX TO VOLUME XXVI

Following precedent we shall send copies of the index to Vol. XXVI only to those of our readers who make request for them. They are ready now and will be mailed promptly to all who express a desire for same.

of eastern Asia as flowering plants are:—

Malus floribunda (see cover illustration), probably the best known and the most generally cultivated Crab-apple in this part of the country. When grown naturally it is a broad, tall, round-topped bush, rather than a tree, with wide-spreading branches. The flowers as they open are red and, passing through different shades of rose color, become almost white before the petals fall. The fruit is not much larger than a pea. This plant is one of the most satisfactory of all flowering shrubs which can be grown in this climate for it has never yet been injured by cold, heat, or drought, and never fails to produce its flowers every spring. On some of these plants the fruit drops in early autumn, and on other seedling plants raised in the Arboretum it remains on the branches until early spring and furnishes birds with great supplies of winter food, and for the benefit of the birds plants of this variety should be selected. There are a number of these plants close to the Administration Building where during the winter they are much frequented by pheasants who find shelter in a neighboring Pine grove. A hybrid of *Malus floribunda*, and one of the hybrid forms of *M. baccata* appeared spontaneously in the Arboretum, and has been called *Malus Arnoldiana*; it has the low-branched habit of *M. floribunda* but the flowers and fruits are more than a third larger. This is one of the handsomest of all Crab-apples.

Other Crab-apples to which special attention is called are:—*Malus Halliana* var. *Parkmanii*, the double-flowered form of a Chinese tree, long cultivated by the Japanese and introduced into this country from Japan more than forty years ago. The bright rose-colored flowers hang on long slender stems and differ in color from those of any other Crab-apple; *Malus Sargentii*, a shrub from northern Japan with wide-spreading branches, pure white flowers with bright yellow anthers, and scarlet fruit which remains on the branches until spring and appears to be unpalatable to birds; *M. Sieboldii*, a Japanese plant better known perhaps under the incorrect name of *M. toringo*, and the last of the Asiatic species in the collection to bloom. There are both shrubby and arborescent forms of this plant which has small nearly white flowers produced in immense quantities and minute fruit which is bright red on some individuals and yellow on others. The variety *calicarpa* of this species is one of the handsomest of the Crab-apples in the collection both in spring and autumn. It is a broad tree-like shrub or small tree with slightly lobed leaves, pink and white flowers an inch in diameter, and brilliant scarlet, lustrous fruits which are half an inch in diameter and are more beautiful perhaps than those of any other Crab-apple. This beautiful plant is little known in gardens and was raised in the Arboretum from seed presented in 1890 by Dr. William Sturgis Bigelow, of Boston. It is impossible in one of these bulletins to more than mention a few of the most important plants in this group, but something will be said of others as they begin to flower.

—*Arnold Arboretum Bulletin.*

Obituary

Robert Scrivener.

Robert Scrivener, for nearly forty years superintendent of the Cedar Hill Cemetery, Hartford, Conn., died Wednesday afternoon, January 2, at the Hartford Hospital following an operation. He was born in Froyale, England, June 20, 1848, and spent his boyhood there. He studied landscape gardening at the Kew Gardens. Forty-four years ago he came to this country and settled in Hartford, where he has since lived. Two years after coming here he was married to Miss Martha A. Camp of Barkway, England, at Watford. He leaves two sons, Robert E. Scrivener, assistant superintendent of the Cedar Hill Cemetery, and William H. Scrivener of the Mechanics Savings Bank, and a daughter, Mrs. Harry B. Howard. Mr. Scrivener's wife died several years ago. He was an active and highly respected member of the Connecticut Horticultural Society and widely known among the gardening fraternity throughout the country to whom he had endeared himself by his many estimable qualities. The funeral was held on Saturday. His son, Robert E., has been appointed to succeed his esteemed father.

Howard Riedinger.

A victim of pneumonia, Howard Riedinger, employed by the Haggerty Floral Company in Poughkeepsie, died in the Mansion Square General Hospital, Poughkeepsie, Sunday, December 23. He had been ill only a week. He leaves his wife and four small childdren in addition to his parents, Mr. and Mrs. Jacob Riedinger. He also leaves three brothers and four sisters. Mr. Riedinger was a popular young man and had a great many friends. The news of his death came as a great surprise and shock to all. He was twenty-four years old.

Charles Hornecker.

Charles Hornecker, formerly in the florist business and father of Henry Hornecker, who now conducts the business at East Orange, N. J., died in East Orange on Tuesday night, Jan. 1.

NEWS NOTES

St. Louis.—An orchid show is the attraction this week at Shaw's Botanical Garden.

Wilkes-Barre, Pa.—Supervisor of Parks Charles L. Seybold is interesting himself in a plan to raise herbs on city ground and to communicate interest in the raising of herbs to local and county florists and farmers. Mr. Seybold's decision comes as a result of a letter recently received by him from Albert Lewis, of the United States Department of Agriculture, which letter stated that it has now become practically impossible to make certain medicines because herbs from which they are made can not be obtained. It is urged that the industry of herb raising will probably prove a profitable business and that it would be to the benefit of florists and growers to take it up. At the same time they would be performing a patriotic duty.

VIOLET GROWERS DISCUSS SHIPPING PROBLEMS.

A meeting of great importance to the violet growers of Rhinebeck, N. Y., was held in the court room in the Town Hall, Thursday, December 27, when E. E. Bush, traffic manager of the American Express Company and F. A. Hoyt the superintendent, met with over sixty of Rhinebeck's leading florists to consider the problem of shipments of flowers being delayed in transit and being damaged by frost.

The Express Company has had many claims for damages for violets which were reported frozen when they reached their destination. It is thought by most of the violet growers that the flowers are frozen from standing in the cold while being transferred and while being delivered to the consignee. The violet men are of the opinion the Express Company is at fault as the trouble has come from shipments which were delayed.

The manner of packing the flowers and labeling the boxes so they could be easily distinguished among other packages was talked about and Mr. Bush suggested having each box wrapped in a distinctive colored paper. Most of the growers considered Mr. Bush's suggestion would be impracticable, but they thought that conspicuous labels on each end and on top of the boxes would be a good precaution to take. Several growers are now using these labels to good advantage.

Mr. Bush said that the Express Company was staggering under the load of present conditions of transportation. He asked for the co-operation of Rhinebeck violet growers and promised that everything possible would be done by the Express Company to overcome the trouble. He advised against making any shipments by express to Washington, Philadelphia or Pittsburgh at the present time.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The Southampton Horticultural Society held its annual meeting on Jan. 3rd, 1918. The election of officers for the year 1918 resulted as follows: President, William McLeod; vice-president, James S. Dickson; secretary, H. H. Wells; financial secretary, Hugh Davidson; treasurer, George Campbell; corresponding secretary, Vernon Pierce; executive committee, Charles F. Guilloz, chairman, Stanley R. Candler, William Frankenback, James Dowlen. In the monthly competition two awards were won by William McLeod and one by Vernon Pierce. It was voted to purchase two full books of war saving certificates. The competition for the February meeting will be for collection of evergreens, berried shrubs and colored woods, all to be correctly named. It was voted unanimously to hold the flower show this year, the proceeds to be given to a good local cause to be decided upon at the next meeting. Stanley R. Candler promised to write an essay for our next meeting. After the meeting the members enjoyed an oyster supper. O. G. Owen made a few remarks on the National Association of Gardeners' meeting at Chicago. President McLeod made a strong appeal for more members for the National Association of Gardeners and secured six names.

VERNON PIERCE, Cor. Secy.

CLUBS AND SOCIETIES

AMERICAN CARNATION SOCIETY.

On account of the unsatisfactory express service, some growers may feel disinclined to risk shipment of carnation blooms to the American Carnation Society's exhibition at Boston, Mass., the last two days of this month. In order that this exhibition shall not be entirely local, we would urge every member to carry as many blooms as he can handle, right along with him. Two or three hundred blooms can be handled very easily as hand baggage and if a few growers will each do this, a very good showing will be made.

The New England growers are finding it difficult to secure enough coal to keep their houses warm and while reports from that section indicate a very high average in point of quality, the quantity shown may fall short of normal, which is another very good reason why the growers from the middle west should make a special effort to exhibit. Make entries for all the stock you might be able to show, and then do your very best to fill all the entries listed. There is no charge for making entries up to January 21st, but after that date it will cost you $2.00 for each class in which you desire to make entry. If you have a new variety, enter it for the society's certificate of merit. A vase of blooms entered in any other class may also be entered for this certificate of merit.

Come prepared to participate in the activities of the convention. There will be discussions of live topics of vital interest to the industry. Look up your records of blooms cut, prices realized and cost of production. The Boston members will extend a hearty welcome. Let's make this the most successful convention ever held by the American Carnation Society.

A. F. J. Baur, Secy.

TO THE CARNATION GROWERS OF NEW ENGLAND.

Owing to the unusual and uncertain transportation conditions of our country at present it is imperative and extremely necessary that our New England growers make every effort to exhibit and attend the meetings of The American Carnation Society at Horticultural Hall, Boston, January 30-31, 1918. We must hold on to the tradition that this is the best carnation section of the country, and if necessary sacrifice to some extent flowers and time to make this a notable Convention and Exhibition. Let us show to the public at this time that we are Keeping the Home Fires Burning, that when our boys return home from the front and from the sea we shall be ready to help them to again take their place in the upbuilding of the Nation and to support their families.

Yours for the best exhibition ever.

S. J. Goddard,
Chairman of Exhibits Committee.
Framingham, Mass.

Meetings Next Week

Monday, Jan. 14.

Gardeners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.

Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Cincinnati Florists' Society, Hotel Gibson Cincinnati, O.

Tuesday, Jan. 15.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.

Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.

Minnesota State Florists' Association, Minneapolis, Minn.

Pennsylvania Horticultural Society, Griffith Hall, Philadelphia, Pa.

Wednesday, Jan. 16.

Rhode Island Horticultural Society, Public Library, Providence, R. I.

Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Jan. 17.

Essex County Florists' Club, Kreuger-Auditorium, Newark, N. J.

New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.

North Westchester County Horticultural Society, Mt. Kisco, N. Y.

Tacoma Florists' Association, Maccabee Hall, Tacoma, Wash.

Friday, Jan. 18.

North Shore Horticultural Socety, Manchester, Mass.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Meeting of the Executive Board.

President Charles H. Totty authorizes the call for a meeting of the Executive Board, 9 a. m., at the Hotel Jefferson, St. Louis, Mo., January 21, 22, next, to continue until all business of the meeting is completed.

Meeting of the National Flower Show Committee.

Chairman George Asmus authorizes the call for a meeting of the National Flower Show Committee at the Hotel Jefferson, St. Louis, Tuesday, January 22. The reason for calling this meeting on the last day of the Executive Board meeting is for the purpose of submitting to the Executive Board any business that may require their consideration. The hour of meeting will be determined later, owing to the uncertainties in regard to accommodations, and the many changes in train service. I would advise that all those who intend to attend these meetings secure reservations at once.

John Young, Secretary.

January 5, 1918.

AMERICAN ROSE SOCIETY.

The secretary's office of the American Rose Society will soon send out entry blanks for the exhibition of the society which will be held in connection with the National Flower Show in St. Louis, April 6th to 15th, 1918. The attention of rose growers who plan to exhibit at this exhibition is called to the following regulations for judging cut blooms: All roses shall be disqualified where exhibited with more than two growths (one pinch), except in classes calling for displays and for one hundred or more blooms in one vase, on which two pinches are allowed.

The following varieties of roses have been offered for registration in the American Rose Society:

Name—Silvia. Class—Hybrid Tea. Parentage of rose—Sport of Ophelia.

Description: Habit of plant, same as Ophelia; character of foliage, better than Ophelia; freedom of growth and hardiness, same as Ophelia; flower, large; color, sulphur yellow shading to white; form, excellent; fragrance and bud, very fragrant, and pointed; petalage, same as Ophelia; freedom of bloom and lasting quality, same as Ophelia. The rose is similar to Ophelia but is different in color and superior for the following reasons: Foliage and long bud.

Signed by F. R. Pierson.

Name—Rosalind. Class—Hybrid Tea. Parentage of rose—Sport of Ophelia.

Description: Habit of plant, same as Ophelia; character of foliage, same as Ophelia; freedom of growth and hardiness, same as Ophelia; color, bright coral in bud, apricot pink when half open, shell pink when full open; form, full; fragrance and bud, very fragrant; petalage, 30 to 40 petals; freedom of bloom and lasting quality, free, fine keeper. The rose is similar to Ophelia but is different in color and has a third more petals and superior for the following reasons: Better color, more double, more fragrant.

Signed by F. R. Pierson.

If no objection to such registration is filed with the secretary of the society within three weeks after this publication, the registration will become permanent.

E. A. White, Secretary.

HORTICULTURAL SOCIETY OF NEW YORK.

There will be an exhibition of plants and flowers at the American Museum of Natural History New York City, on Saturday and Sunday, January 19th and 20th. Prizes are offered for orchids, carnations, sweet peas, schizanthus, snapdragons and euphorbias. Schedules are now ready for distribution, and may be had by addressing the secretary, George V Nash, New York Botanical Garden. Bronx Park, N. Y. City.

George V. Nash, Secy.

SOME TIMELY LEGAL ADVICE

A PARTNERSHIP EXPERIENCE AND ITS TWO MORALS.

About two years ago, in a certain part of Indiana, two men formed a partnership for the purpose of doing a wholesale business. One was an inside man, the other an outside, and both had a wide acquaintance among the firms they must look to for business. It looked like an ideal team. Each man had saved money and both contributed an equal amount to the firm's capital.

The new firm did business from the start, and in six months was making a little money. In a year it was doing exceedingly well, and gave every prospect of doing better as time went on. When the business was eighteen months old, the partners had their first serious disagreement. It was not about anything connected with the business, but about a girl stenographer in the firm's employ. Both men were married. They fell out very deeply over the thing, and after several weeks of bitter wrangling, during which the business, of course, suffered, each man made the other a proposition to sell his interest, but neither of the propositions was accepted, and a deadlock resulted.

The business was going from bad to worse, when one of the partners went off one day and sold his interest in the firm to another salesman in the same line. The deal involved several thousand dollars, yet both parties decided that they could put it through without counsel—"it was just an ordinary sale"—and they got together in a hotel room and signed the papers which together they had drawn up. The buyer paid half of the purchase price in cash and gave a note for the balance. The seller in this case was the partner who had been at fault regarding the stenographer.

Following the deal, the buyer of the half interest took his papers to the store of the firm and announced to the remaining member of the partnership that he was his partner. How was that? Why, he had just bought out the other man's share. And he showed the paper in corroboration.

The remaining partner did not take kindly to the sale and at once consulted the firm's lawyer as to his rights. He was advised that despite the sale, he was not obliged to accept the new man as partner, that he need not work with him or accept him in any way.

Just here let me explain this most important drawback of partnership. It is well settled that a partner can not sell his interest in the partnership to a third party unless the remaining member consents. He can sell something, but it is merely a half interest (if the seller held a half interest) in the firm's assets which remain after the business is settled up. This is from a leading case.

The legal power of a partner to make a transfer of his interest to a third party is unquestioned. The transferee, however, does not become a tenant in common with the other partner in any specific goods, but acquires only the interest his vender had, which is his share of the residue after the affairs of the firm are settled and the debts paid, including debts due from the firm to a partner. Such a purchase does not make the buyer a partner in the firm without the concurrence of all the partners, either given expressly or implied from conduct.

To illustrate, A and B are partners. They fall out and B sells his share to C. The business cannot go forward with C in it unless A consents. All that C can legally demand, after buying B's share, is that the business be wound up, debts paid, and he be given half the balance. In other words, selling one's share to an outsider without his partner's consent, usually means the destruction of the business. It cannot possibly mean anything else unless the remaining partner agrees.

Now to get back to the Indiana case. The remaining partner served notice on the buyer of the half interest refusing to accept him, and the latter then consulted his own lawyer, who told him the same thing that the other lawyer told his client. He then tried to find the man he had bought from to rescind the deal, but found he had gone to New York with the idea of going to France. He finally found him, but he had spent some of the money and refused to give back the balance on the ground that the deal was bona fide as far as he was concerned.

The buyer then went back to Indiana to see about getting the only thing he could—one-half the assets after the business was wound up. He took proceedings to that end, the business was wound up and its assets sold, as the remaining partner had lost the chance he had had before of raising the money to take the other half interest over. As would be the case with many businesses were their assets forced to sale, it brought enough to pay back the buyer of the half interest about one-fourth of his money. I can scarcely understand why the remaining partner here could not have gotten money enough from his bank, or somewhere, to buy the half interest and thus prevent the sale, but he seems for some reason not to have been able to.

This little deal had the following evil results:—

It cost the buyer of the half interest several thousand dollars in cold cash.

It put the remaining partner to much expense, inconvenience and loss.

It practically destroyed a going, profitable business.

The two morals are plain: 1, never go through with a deal involving any substantial sum without counsel; 2, do not enter into a partnership without realizing that you cannot sell your interest as a share in a going business, without your partner's consent, which consent will very often be refused. There is only one way to get around this and that is a way I should never advise a client to take, viz.: put in the partnership agreement a clause binding each to accept as partner anybody to whom the other may sell his share. A man would be exceedingly foolish to agree in advance to something that might cause him the deepest embarrassment and regret.

WHEN YOU BUY OUT A BUSINESS.

In the same State, at about the same time, two men sold their businesses. One was a retail coal dealer, the other a manufacturer of a wrapping device. In both cases the buyers set out to protect themselves by inserting in the agreement of sale a clause binding the seller not to re-engage in the same business for a certain time. These clauses are always inserted in an agreement to sell a business, if the buyer knows his business. Otherwise, a man may sell his store one day and immediately open another one the next day, of course taking all the trade he had just sold.

In both of these two cases I have referred to, the sellers, after getting the buyers' money, attempted to get out of their agreements not to re-engage in the same business. In both cases the buyers appealed to the courts for an injunction. One got it and the other did not. The difference between the two cases shows so clearly how to make and how not to make agreements restricting the seller of a business from going into the same business again, that I shall devote this article to pointing that difference out.

In the coal man's case, the seller sold his trade name, trade-mark, good will, fixtures, stock in trade—everything connected with the business—and agreed not to re-engage in the coal business in the same city for two years, and not within two miles from his former place of business for five years. Three years afterward he opened up another coal yard a little

NEW TOMATO "STAMFORD BEAUTY"

THE FINEST OUTDOOR TOMATO THE WORLD HAS EVER SEEN

Awarded highest honors wherever exhibited. Winner of five Certificates of Merit from Horticultural and Agricultural Societies. *"Stamford Beauty"* resembles the old favorite Stone Tomato, but is earlier, sweeter and has a handsome color finish of deep scarlet.
"Stamford Beauty" is a strong healthy grower, and a *MOST WONDERFUL* cropper, producing a wealth of large beautiful smooth Tomatoes from early summer till late fall.
"Stamford Beauty" will give you full reward for your money and labors. Plant some this year.

Seeds grown in 1917, packed and sold in originator's sealed packets only.
Price per Packet, 25 Cents. *Mailed free on receipt of price.*

ANTHON PEDERSEN Fairlawn, Stamford Conn.

more than two miles from his old place, but solicited orders within the two-mile radius. When his old buyer took him into court on an application for injunction, the court said the restrictive agreement was legal and would be upheld, and an injunction was granted restraining the seller from soliciting any business whatever within a radius of two miles from his old stand.

The court said this:—

We are of the opinion that it is a breach of the agreement to conduct a business similar to the one transferred within the radius of two miles from Main and Price streets or to do acts in violation of the spirit and intent of the contract. The defendant cannot be restrained from establishing a coal yard, after the term of two years, beyond the territorial limits set forth in the agreement, but the soliciting of business, the selling and delivery of coal to customers within the territorial limits is carrying on business and a breach of the contract.

I am often asked, in cases like this, whether the seller of a business who binds himself not to re-enage in the same line for a time, and within a certain territory, could fill orders that came to him voluntarily from old customers within the prescribed territory. Of course he could, but he would have to show very clearly that the order did not result from some direct or indirect solicitation of his.

So the buyer of the coal business got his injunction. The buyer of the manufacturing business was less successful. Let us see why. In the latter case the selling agreement bound the seller "not to engage, directly or indirectly, in the business of manufacturing or selling the same or any competing material in the United States." After a while the seller of the business started in to sell a competing product and an injunction was asked against him. The court said no; this time the agreement keeping the seller out of business was not legal and would not be upheld, because it was not reasonable. Instead of keeping him out for a limited time and a limited territory, merely enought to give the buyer a chance to get settled, it sought to keep him out for all time and in the whole United States. This is from the court's decision:

This restriction was not reasonable. Such a contract in restraint of trade is clearly unreasonable. Such a requirement is not at all necessary for the proper protection of the rights of the plaintiff and it is oppressive to defendant.

The restriction here is also unreasonable in that it is unlimited as to time. It is a well-settled rule of law that an agreement in general restraint of trade is illegal and void, but an agreement which operates merely in partial restraint of trade is good, provided it is not unreasonable and there be a consideration to support it. In order that it may not be unreasonable, the restraint imposed must not be longer than is required for the necessary protection of the party with whom the contract is made (the buyer). A longer contract, even on good consideration, is held void, as being too general a restraint of trade; but a contract not to use a trade at a particular place, if it be founded on a good consideration and be made for a proper and useful purpose, is valid. Of course, a contract not to exercise a trade generally would be obnoxious to the rule, and would be void.

In Union Strawboard Co. vs. Bonfield, 193 Ill. 420, the contract was in connection with the sale of a business, and a reasonable restriction was justified, but it was there said: "The courts will not enforce any contract which excludes a party generally from following any lawful trade or business beneficial to the community and to him."

In the case at bar, the contract in restraint of trade being unlimited as to time, and as to space extending over the entire country, must be regarded as extending the restraint further than is necessary for the reasonable protection of the covenantee. Reference to the nature and subject-matter of the restriction makes its unreasonableness more clearly apparent.

In other words, the buyer of the coal business got his injunction because his lawyer knew the law of restraining agreements, and the other buyer lost his because his lawyer did not.

(Copyright, November, 1917, by Elton J. Buckley.)

Mt. Holly, N. J.—Arthur J. Collins has purchased the Moorestown Nurseries, formerly conducted by the late Samuel C. DeCou. This property adjoins the place at present owned by Mr. Collins.

CATALOGUES RECEIVED.

J. M. Thorburn & Co., New York.—1918 Catalogue of Seeds. J. M. Thorburn & Co. were founded in 1802 and that they are "still going strong" in every essential quality of a representative substantial seed house is evident from the contents of this annual catalogue, just issued. Delays and shortages in the supply of European seeds are the nightmare of all the seed merchants and Messrs. Thorburn & Co. emphasize strongly the need for ordering early this year. The book comprises 160 pages.

W. Atlee Burpee, Philadelphia, Pa.—Burpee's Annual for 1918. We have been interested in looking over this catalogue for the reason that many varieties are the shortest crops that the seed business has ever known, and incidentally this is the first year that Burpee has cataloged everything under the cental system. We note that they are offering everything by the pound instead of the pint, quart, bushel, etc., as heretofore. Another feature of the catalog this year is twenty-four pages of process color work. They make a special play on root crops, with the idea of getting the small garden planter to recognize the food value of these vegetables. Another feature is the Economy Garden, which occupies two pages, showing the photographs of some of the demonstration gardens which they conducted in some of the large cities. Collections of annual flower seed are illustrated in color on twenty varieties for $1.00.

Donald B. MacMillan was the speaker last Thursday afternoon at the first winter meeting of the season of the Worcester County, Mass., Horticultural Society in Horticultural Hall. Mr. MacMillan spoke on "Flora of the North," illustrating his talk with stereopticon views.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Bolgiano's Seed Establishment Celebrates Its 100th Anniversary.

With the dawning of the new year, Bolgiano's Seed Establishment, Baltimore, passes the 100th year mark of its existence, having been founded in the year 1818 when Baltimore was regarded as not much more than a side station, by the present management's great grandfather, in small quarters on South Calvert street. At the time of the great Baltimore fire, they were located at Lombard and Light streets where their buildings were entirely wiped out by the great conflagration. They then established their present quarters at Pratt and Light streets and have since acquired the new piers and warehouses located on Key Highway just opposite the new ten-million-dollar piers. The waterfront property includes their onion set and seed potato warehouses, their new poultry food manufacturing plant with a capacity of five thousand 100-pound bags daily, also their special grass, clover and field seed cleaning machinery buildings. They have located at Raspeburg, Md., their seed trial and testing grounds, and large poultry farm and hatcheries at Rossville, Md. They annually market the product of over 100,000 acres of ground.

They were the first seedsmen in America to establish completely equipped seed analyzing and seed testing laboratory. One hundred years of success has placed the names of over a half million customers on their books. All over the United States their seeds have been planted by grandfathers, fathers and sons.

John Bolgiano, Sr., was the head of the firm from 1825 until he retired in 1883. He died in 1892. Joseph A. Bolgiano was head of the firm from 1883 until he retired in 1899. He had many other interests identified with Baltimore. He died in the year 1913.

Charles J. Bolgiano, the present proprietor, is well known to all Baltimoreans. He is a member of many civic, financial and fraternal organizations. Mr. Bolgiano has recently lent his large business experience as well as financial aid to the establishing and maintenance of many philanthropic and charitable institutions.

GLADIOLI

IMMEDIATE SHIPMENT

	Per 100	Per 1000
PANAMA, top roots..	$5.00	$45.00
AMERICA, " "	3.00	25.00

Write for Prices on Other Varieties

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WE Can Offer to Advantage On Spot—Ready for Immediate Shipment.

HIGH GRADE TESTED GARDEN SEED
WHITE CLOVER
CRESTED DOGSTAIL
RYE GRASSES
ORCHARD GRASS
RAPE SEED
PRICKLY SEEDED SPINACH
CHOICE RECLEANED ONION SETS

Write for Our Prices and Samples

J. BOLGIANO & SON

Founded 1818. We Have Won Confidence for 100 Years

BALTIMORE, MD.

Send for Our Complete Market Gardeners' and Florists' Price List.

"Seeds with a Lineage" All Varieties Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

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Far-Reaching Legislation.

Our readers will be interested to learn that on January 4th, Senator Weeks of Massachusetts introduced a bill (S. 3344) to prohibit the importation of nursery stock into the United States. The gist of the bill is, in a few words, "that it shall be unlawful for any person to import or offer for entry into the United States any nursery stock."

Section 4 provides the definition of nursery stock, to include all field-grown florists' stock, trees, shrubs, vines, cuttings, grafts, scions, buds, fruit pits, and other seeds of fruit, and ornamental shrubs and other plants and plant products for propagation, except field, vegetable and flower seeds, bedding plants, and other herbaceous bulbs, plants and roots.

The nursery and florists' trades are on record as opposing legislation of this character, and proper steps will be taken to secure a fair discussion of the merits of this bill in a hearing before the Senate Committee on Agriculture and Forestry.

Washington, Jan. 3.—If normal production of the nation's food and feed crops is to be had this year prompt action to protect the seed supplies is necessary, Secretary Houston warned Congress today in asking for an urgent deficiency appropriation for government purchase and sale of seed to farmers at cost.

—*Press Despatch.*

We would respectfully suggest that the American seed trade might safely be trusted to take care of the farmers' seed requirements. If "normal production of the nation's food crops" is dependent upon such action as the foregoing indicates then the American farmer has neither the "sand" nor the sagacity with which we have been wont to credit him.—Ed.

MICHELL'S NEW CROP FLOWER SEEDS

FOR FLORISTS

ASPARAGUS PLUMOSUS NANUS

Northern greenhouse grown. Extra quality. True to name.

100 seeds, $0.50; $3.50 per 1,000
5,000 seeds, $15.50; $30.00 per 10,000

Send for General Wholesale Price List of Seeds, Bulbs, Plants, Specialties and Sundries.

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518 Market St., PHILA, PA.

LILIUM GIGANTEUM

7/9	(300 per case).....	$55.00 per thousand
8/10	(225 per case).....	80.00 " "
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Choice Flower Seeds
FOR FLORISTS
CINERARIA—Prize strains, mixed Tall and Semi-dwarf.
ALYSSUM—Little Gem.
CALENDULA—Orange King, Lemon Queen.
SNAPDRAGON—Silver Pink.
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KELWAY & SON
SPECIALIZE IN
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WHOLESALE ONLY
Write for Special Prices, Spot or Forward
Only Address, LANGPORT, Eng.

Paper White Narcissus
Lilium Candidum
Amaryllis, Callas
Cold Storage Lilies
Write us for price
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ROMAN J. IRWIN
108 West 28th St., NEW YORK
CHOICE FLORISTS' FLOWER SEEDS
Asparagus Plumosus Nanus—1000 seeds, $3.50; 5000 Seeds, $15.00.
Asparagus Sprengeri—1000 Seeds, $1.00.
Salvia Bonfire—½ oz., 50c.; 1 oz., $2.00.
Salvia Zurick—½ oz., 75c.; 1 oz., $4.00.
Stocks Beauty of Nice, 75% Double Flowers—Shell Pink, Bright Pink, Purple, White—Tr. Pkt., $1.00; ½ oz., $3.00; 1 oz., $5.00.
Snapdragon, Petunias, Verbenas, etc.
SEND FOR CATALOGUE.

J. BOLGIANO & SON
Careful Seed Growers For 99 Years
Send for Our 1917 Wholesale Prices To Florists and Market Gardeners
BALTIMORE, MD.

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PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT

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Importers and Growers of
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SPECIAL OFFER
NARCISSUS PAPER WHITE GRANDIFLORA

13 to 15 cts.	1250 to case	$14.00 per 1000	$17.00 per case
14 ctm.,	1000 to case	16.00 per 1000	16.00 per case

WHITE ROMAN HYACINTHS

13x15 ctm	$5.00 per 100	$50.00 per 1000
15 ctm. and up	7.00 per 100	65.00 per 1000

FREESIA PURITY
First size ..... $10.00 per 1000
CALLAS
Medium size .....$10.00 per 100 Mammoth size.....$15.00 per 100
STUMPP & WALTER CO., - Seedsmen
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PRICES ON APPLICATION
R. & J. FARQUHAR & CO.
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and SEED SERVICE
FOR SALE BY
LEONARD SEED COMPANY, Chicago, Ill.

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PIN MONEY
8 lbs. for $1.00
Treatise — How to Grow Them Included
WM. ELLIOTT & SONS
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SEEDS, BULBS AND IMPLEMENTS WHOLESALE AND RETAIL.
Recselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.
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BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to
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LILIUM GIGANTEUM
New Crop Now On Hand
For immediate or future delivery prices quoted on application.
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SEEDS, PLANTS AND BULBS
Horticultural Sundries
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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
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"The Telegraph Florist"
Member of Florists' Telegraph Delivery
124 TREMONT ST.
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Transfer Your Orders to
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1017 Grand Avenue
Member Florists' Telegraph Delivery

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
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Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1888-1889 Columbus

KOTTMILLER, Florist
426 Madison Ave. and 49th St., New York. Also Vanderb lt Ho
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Out-of-town Orders Solicited. Location Central. Personal Attention.
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FLORIST
32 NEWBURY STREET, BANGOR, ME.
We Cover all Points in Maine

Providence, Rhode Island
Johnston Brothers
LEADING FLORISTS
38 Dorrance Street
Member Florists' Telegraph Delivery

Of Interest to Retail Florists

A VASE OF AMERICAN BEAUTIES.

The picture presented herewith shows a vase of American Beauty roses sent to Governor Samuel W. Mc-

Call of Massachusetts in honor of his inauguration on January 3. It was the work of Penn the Florist.

Lowell, Mass.—James Kenney is the latest arrival in the Bradley building in the store just recently vacated by Harry Raynes. It became necessary for him to move into a larger and more convenient store on account of a rapidly growing business.

IN THE
National Capital
At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.
GEORGE H. COOKE
Connecticut Ave. and L St.
WASHINGTON, D. C.

Established 1874
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.
We should all strictly adhere to the request of the United States Food Administration.

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CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting especially adapted for florists' use.
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Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada.
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Write or Phone to
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Best Florists in the States as References.
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FLOWER DELIVERIES FOR ALBANY AND VICINITY
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CHICAGO

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Prompt Auto Delivery Service

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Orders Filled Day or Night for
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735 Euclid Avenue
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Flowers of Every Kind in Season

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Telephones 1301 and L 1533.
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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy Stock and prompt deliveries in BUFFALO, LOCKPORT, NIAGARA FALLS and WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

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For Retail Stores a Specialty
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Randall's Flower Shop
HARRY I. RANDALL, Proprietor.
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Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Bangor, Me.—Adam Sekenger, 32 Newbury St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.

Say It With Flowers

Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—Kottmiller, 426 Madison Ave. and 49th St., also Vanderbilt Hotel.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 33 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Rochester, N. Y.—J. B. Keller & Son had a very attractive holiday window in which were gilt and birch-bark boxes and baskets filled with primroses and cyclamen in white and lavender shades and gilt vases of jonquils. A huge vase of lavender chrysanthemums draped with yellow plush made a very attractive background.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to
Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.
Every Order sure to receive prompt and careful attention.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

The Far-Famed Flowers of
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Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention
HOLM & OLSON, Incorporated
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The **Park Floral Co.**
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KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
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BEAUTIES

Orchids - Cypripedium
White Lilac

Just remember that we are Headquarters for them and we can supply you with good stock.

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N. W. Corner 12th and Race Streets
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Before Looking Elsewhere

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WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

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GROWERS AND WHOLESALERS
Greenhouses, Edgely, Bucks Co., Pa.
Office and Wholesale Store, 9 So. Mole St.,
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Our Specialties — ROSES and CARNATIONS

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Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...$2.00. 50,000...$8.75. Sample free.
For sale by dealers.

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Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

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WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service
ZECH & MANN
We are Wholesale Florists Doing a Strictly Wholesale Business
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MANUFACTURERS
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POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
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IF you want anything from Boston get it from Henry M. Robinson & Co.

We are on the job at all hours of the day, from 6 A. M. to 7 P. M.

We carry the largest line of Supplies in New England and also the best flowers from over one hundred of the leading growers in New England. You can always Depend for SERVICE, PRICE AND QUALITY.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.
10 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 10			ST. LOUIS Jan. 8			PHILA. Jan. 7		
Roses									
Am. Beauty, Special	$5.00	to	35.00	40.00	to	50.00	40.00	to	50.00
" " Fancy and Extra	10.00	to	20.00	30.00	to	40.00	20.00	to	35.00
" " No. 1 and culls	4.00	to	8.00	3.00	to	10.00	4.00	to	15.00
Russell, Euler, Mock	4.00	to	12.00	5.00	to	15.00	4.00	to	30.00
Hadley	4.00	to	12.00	5.00	to	15.00	4.00	to	15.00
Arenberg, Hoosier Beauty	4.00	to	10.00	.....	to	.....	3.00	to	12.00
Ward	4.00	to	8.00	4.00	to	8.00	4.00	to	8.00
Killarney, Radiance, Taft	4.00	to	8.00	5.00	to	8.00	3.00	to	10.00
Ophelia, Sunburst, Hillingdon	4.00	to	12.00	.....	to	15.00	4.00	to	12.00
Carnations	2.00	to	4.00	.....	to	4.00	2.00	to	4.00
Cattleyas	25.00	to	35.00	.....	to	60.00	40.00	to	60.00
Dendrobium formosum	.....	to	30.00	.....	to	.....	30.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.00	10.00	to	12.00
Lilies, Speciosum	6.00	to	8.00	4.00	to	6.00	3.00	to	6.00
Callas	12.00	to	16.00	10.00	to	12.00	12.50	to	15.00
Lily of the Valley	6.00	to	8.00	8.00	to	10.00	5.00	to	10.00
Snapdragon	6.00	to	10.00	3.00	to	6.00	4.00	to	15.00
Bouvardia	2.00	to	3.00	.....	to	.....	3.00	to	4.00
Violets	.50	to	.60	1.00	to	1.25	.35	to	1.00
Freesia	2.00	to	4.00	3.00	to	5.00	4.00	to	6.00
Narcis, Paper White	1.00	to	2.00	3.00	to	4.00	2.00	to	3.00
Roman Hyacinths	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00
Stevia	1.00	to	1.50	.....	to	1.00	1.00	to	1.50
Calendula	2.00	to	3.00	.....	to	.....	2.00	to	4.00
Mignonette	3.00	to	4.00	2.00	to	4.00	2.00	to	5.00
Sweet Peas	1.00	to	2.00	1.50	to	2.00	1.00	to	2.00
Marguerites	2.00	to	4.00	1.00	to	3.00	1.00	to	2.00
Gardenias	15.00	to	35.00	.....	to	.....	20.00	to	30.00
Adiantum	1.00	to	1.25	1.00	to	1.00	.75	to	1.00
Smilax	20.00	to	25.00	12.00	to	20.00	15.00	to	20.00
Asparagus Plumosus, & Sprys. (100 Bchs.)	35.00	to	50.00	30.00	to	50.00	25.00	to	50.00

WILLIAM F. KASTING CO.
Wholesale Florists
568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG
184 North Wabash Avenue, CHICAGO
ROSES, VALLEY and CARNATIONS A Specialty
WHOLESALE GROWER of **CUT FLOWERS**

Flower Market Reports

BOSTON

The situation here up until Tuesday, January 8, was exceedingly grave for the flower growers and dealers. Business was about as near dead as it could be during the continuance of the frigid spell which covered most of the country, but we are happy to note a very hopeful feeling now and a good change for the better all around. There has been some gratifying activity in and around the wholesale markets for the past two days, although certain flowers, as carnations, cattleyas, narcissi and lilies, are still at the bottom of the ladder and show no disposition to climb either to a more active call or a more seasonable market value. In general, there is an abundance of everything and prices run far below averages for corresponding dates in other years. Express delays have been very grievous and the wholesalers have many complaints of the way incoming and outgoing flower shipments have been handled.

CHICAGO

The usual run of business went on as usual following the opening of the New Year. There was no special demand and the easing up of trade was not regretted after the strenuous holiday week. The stock coming in was about normal for January and the quality good and the end-of-the-week sales were expected to make a good showing. All were disappointed, however, for an old-fashioned blizzard cut out the Sunday trade and Monday's was reduced to a minimum. The express companies delivered suburban shipments, but long-distance consignments were missing. The losses of glass will tend to reduce the quantity of incoming stock, but not seriously. Roses are now in splendid condition and selling at a moderate price, the stock of Mrs. Russell being particularly fine. Carnations are more plentiful than before the holidays. Sweet peas are beginning to come again. There is a good supply of lilies and a few daffodils are offered by a local grower.

NEW YORK

The growers and wholesale dealers—and we might say also many of the retail florists—are wondering whether the management of affairs was not passed over to the control of the "powers of darkness" for eight or ten days following Christmas. The situation altogether was one full of discomfort and loss. Business has not yet got under way. There is very little being done by any class and the apathy extends more or less completely to all departments. There are superfluous quantities of paper white narcissi, carnations, stevia and lilies coming in but the receipts of other flowers are not heavy and if demands were only normal for the season there would be no surplus of anything to worry about. As it is, however, there are accumulations more or less serious of cattleyas, cypripediums, corn flowers, sweet peas, trumpet narcissi, Roman hyacinths, roses, wallflowers and violets in addition to the things already mentioned. Among the newer varieties now in evidence are Irises, tulips, Bicolor narcissi and snapdragons of wonderful size and color. Gov. Herrick violet is more abundant than in former seasons but it is not popular. Lilies have never been so poor. The cold weather has made torn rags of the blooms. Callas are good and in some instances superb. Cypripediums of many of the choice forms of C. insigne are offered but find no takers.

PHILADELPHIA

Since the New Year, business has been rather slow. We always expect it that way for a week or two but of course conditions this year are phenomenal and have accentuated the dullness. On Saturday the order went out that no express shipments would go out under any conditions and the shippers had to depend on parcel post—twenty pounds being the limit. This caused much extra work in packing. Today (Jan. 8th) the situation is improving—according to reports from the express companies—and they promise service as usual, which perhaps indicates that the clearing house business of the government in regard to transportation is well under way and that we can expect better service from now on.

(Continued on page 43)

Pussy Willow

A reminder that better times are coming. Buy a few and give your place a bit of spring cheer.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI Jan. 7			CHICAGO Dec. 31			BUFFALO Jan. 7			PITTSBURG Jan. 9		
Am. Beauty, Special	40.00	to	50.00	30.00	to	40.00	40.00	to	50.00	40.00	to	60.00
" " Fancy and Extra	30.00	to	40.00	20.00	to	30.00	25.00	to	30.00	25.00	to	35.00
" " No. 1 and culls	6.00	to	15.00	10.00	to	20.00	5.00	to	15.00	12.00	to	20.00
Russell, Euler, Mock	8.00	to	15.00	5.00	to	25.00	6.00	to	12.00	8.00	to	15.00
Hadley	8.00	to	15.00	4.00	to	8.00	6.00	to	12.00	.....	to	.....
Arenberg, Hoosier Beauty	6.00	to	15.00	4.00	to	8.00	6.00	to	12.00	.....	to	.....
Ward	5.00	to	10.00	3.00	to	10.00	3.00	to	6.00	6.00	to	12.00
Killarney, Radiance, Taft	4.00	to	10.00	3.00	to	8.00	4.00	to	10.00	4.00	to	12.00
Ophelia, Sunburst, Hillingdon	6.00	to	15.00	3.00	to	8.00	5.00	to	12.00	4.00	to	12.00
Carnations	3.00	to	4.00	2.00	to	4.00	3.00	to	5.00	3.00	to	5.00
Cattleyas	.....	to	75.00	50.00	to	75.00	50.00	to	60.00	60.00	to	75.00
Dendrobium formosum	.....	to	.....	5.00	to	75.00	.....	to	.....	.....	to	.....
Lilies, Longiflorum	.....	to	15.00	10.00	to	12.00	8.00	to	10.00	10.00	to	12.00
Lilies, Speciosum	.....	to	.....	.....	to	.....	4.00	to	6.00	.....	to	.....
Callas	8.00	to	10.00	12.00	to	15.00	10.00	to	15.00	.....	to	.....
Lily of the Valley	.....	to	10.00	5.00	to	6.00	8.00	to	10.00	.....	to	.....
Snapdragon	4.00	to	6.00	4.00	to	6.00	4.00	to	8.00	4.00	to	8.00
Bouvardia	.....	to	.....	5.00	to	6.00	.....	to	.....	.....	to	.....
Violets	1.00	to	2.00	1.00	to	1.50	.75	to	1.00	1.00	to	1.25
Freesia	.....	to	4.00	3.00	to	4.00	3.00	to	5.00	.....	to	.....
Narcis. Paper Whites	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00	3.00	to	5.00
Roman Hyacinths	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00	3.00	to	5.00
Stevia	2.00	to	3.00	2.00	to	3.00	1.00	to	1.50	1.50	to	2.00
Calendula	3.00	to	4.00	2.00	to	3.00	2.00	to	3.00	3.00	to	4.00
Mignonette	.....	to	.....	.....	to	.....	5.00	to	6.00	3.00	to	6.00
Sweet Peas	1.00	to	2.00	2.00	to	3.00	1.00	to	2.50	1.00	to	4.00
Marguerites	.....	to	1.00	.....	to	.....	1.00	to	1.50	2.00	to	4.00
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.....	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	15.00	15.00	to	20.00	15.00	to	20.00	15.00	to	20.00
Asparagus Plu. & Sprus. (100 Bhs.)	25.00	to	35.00	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Jan. 5 1918	First Part of Week beginning Jan. 7 1918
American Beauty, Special	30.00 to 40.00	20.00 to 30.00
" " Fancy and Extra	20.00 to 25.00	10.00 to 20.00
" " No. 1 and culls	3.00 to 10.00	3.00 to 6.00
Russell, Euler, Mock	3.00 to 15.00	2.00 to 12.00
Hadley	2.00 to 25.00	2.00 to 15.00
Aaschberg, Hoosier Beauty	2.00 to 8.00	2.00 to 6.00
Ward	2.00 to 6.00	2.00 to 6.00
Killarney, Radiance, Taft	2.00 to 6.00	2.00 to 6.00
Ophelia, Sunburst, Hillingdon	2.00 to 8.00	2.00 to 8.00
Key	2.00 to 10.00	2.00 to 8.00
Carnations	1.00 to 3.00	1.00 to 2.00

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NEW YORK.

Flower Market Reports

(Continued from page 41)

ROCHESTER, N. Y. Delayed shipment and frozen flowers with zero weather has not helped the flower business. Shipments have arrived at least 18 to 24 hours late. Business on the whole has been slow since Christmas. The New Year's business was only a little better than the ordinary day trade. Cut flowers are of good quality, roses being the chief item. Roman hyacinths, paper whites, jonquils and freesia are the latest additions and are fairly plentiful. Carnations are very abundant. Violets and lily of the valley do not sell overfast. There are a few sweet peas and bouvardia.

ST. LOUIS There was not a very heavy demand for New Years. At time of writing transient trade is influenced by snowy and cold weather. The carnation market shows signs of breaking. Violets are also with a few bright days showing an increase in supply and are falling in price. Rose values also are on the decline.

NEW FLOWER STORES.

Taft, Cal.—Mrs. K. Dopvera.

Dallas, Texas — Dallas Floral Co., Oriental Hotel Building.

Birmingham, Ala.—Theo. Smith, Hotel Hillman Bldg., 19th St.

Wallace, Ida.—George L. Lowe, succeeding Thos. Christensen.

Newark, N. J.—Washington Florist, 557 Broad St.; George Hoernig, 458 Clinton Ave.

St. Joseph, Mo.—Stuppy Floral Co., removing March 1st to Geiger Bldg., 7th and Francis Sts.

BUSINESS TROUBLES.

Manchester, N. H.—Harry T. Mead, florist, 1230 Hanover St.; liabilities, $3,000.

Arthur Westcott, who opened a new flower store in Taunton, Mass., went out of business after Christmas.

Columbia City, Ind.—Columbia City Floral Co. has gone into bankruptcy and the Provident Trust Co. has been appointed receiver.

J. W. Eagleston, who operated the flower store known as "Flower Craft," 1514 Hyde Park Boulevard, Chicago, turned over his store and fixtures to his creditors last week. He opened the store about two years ago and with the assistance of his son had built up quite a business. There is an indebtedness of $2,200. His affairs have been placed in the hands of a committee of which A. L. Vaughan is chairman and the business is offered for sale. The location is a good one. Mr. Eagleston has never had any previous experience in the flower business.

VISITORS' REGISTER.

New York—George B. Hart, Rochester, N. Y.; Jack Frost, North Pole.

Rochester, N. Y.—Julius Berg, New York; R. E. Blackshaw of Ove Gnatt Co., Hammond, Ind.; E. S. Kennon, Castorland, N. Y.; H. Hahne, Warren, Pa.

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Jan. 5 1918	First Part of Week beginning Jan. 7 1918
Cattleyas	20.00 to 35.00	15.00 to 25.00
Dendrobium formosum	..... to 50.00	..... to 50.00
Lilies, Longiflorum	3.00 to 6.00	3.00 to 5.00
Lilies, Speciosum	3.00 to 6.00	3.00 to 6.00
Callas	15.00 to 25.00	15.00 to 25.00
Lily of the Valley	3.00 to 6.00	2.00 to 5.00
Snapdragon	8.00 to 12.00	2.00 to 15.00
Bouvardia	2.00 to 3.00	2.00 to 3.00
Violets	.20 to .40	.20 to .40
Freesias	1.00 to 3.00	1.00 to 3.00
Narcis, Paper White	1.00 to 2.00	1.00 to 2.00
Roman Hyacinths	1.00 to 3.00	1.00 to 3.00
Stevia	.75 to 1.00	.75 to 1.00
Calendula	2.00 to 3.00	2.00 to 3.00
Mignonette	3.00 to 4.00	3.00 to 4.00
Sweet Peas	2.50 to 3.00	2.00 to 3.00
Marguerites	1.00 to 3.00	1.00 to 3.00
Gardenias	15.00 to 30.00	15.00 to 30.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, & Spren (roo bunches)	25.00 to 50.00	25.00 to 50.00

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CLUB AND SOCIETY NOTES.

The Tarrytown (N. Y.) Horticultural Society has decided to omit its 1918 annual dinner, owing to war conditions. George McIntosh has just been chosen president of the society.

At the regular meeting of the Buffalo Florist Club on Wednesday evening, January 9th, Professor E. A. White, head of the Department of Floriculture at Cornell University, addressed the members on "Practice and Theory in Horticulture."

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LOCAL AND GENERAL NEWS

BOSTON.

Rep. M. A. O'Brien, Jr., has introduced a bill in the Legislature which provides that the mayflower, presumably the trailing arbutus, shall be the Bay State's floral emblem.

On Dec. 29 a two-story wooden building at the city greenhouses on East Cottage street, Roxbury, used as a garage, was destroyed by a fire, which started from an undetermined cause and spread rapidly. Loss, $1,500.

On the occasion of the installation of Frank Edgar of Waverly as master of Belmont Masonic Lodge last week, he was presented with a ring by members of the fraternity among the Boston florists, Henry Penn making the presentation speech.

The annual banquet of the American Carnation Society will take place on January 31 at Horticultural Hall. The sale of tickets will be limited to members of the society and their ladies. Patrick Welch is chairman of the dinner committee.

Plans have been drawn for a small concrete building to be erected for the Boston Elevated Railway Company on its land at 183 Canal street, for occupancy by a flower shop. The building will be one-story high and will have a frontage of twenty-one feet.

In the present depressed condition of the carnation market many held-over flowers are in evidence. Among the varieties that show the best keeping qualities at such a time we would place Morning Glow. This carnation seems to never get drowsy and is deservedly popular on that account.

A meeting of the Massachusetts section of the Publicity Campaign Committee was held at the office of the state chairman, Patrick Welch, on Tuesday, January 8. Action was taken towards an immediate rally for the collection of subscriptions to the fund and an address to the florists of the state will be sent out within a few days.

"The Country of the Amazon" was the subject of an illustrated lecture given by Dr. W. T. Councilman, Boston, on January 5, in Horticultural Hall, under the auspices of the Massachusetts Horticultural Society. The lecturer, who has traveled extensively through South America in 1916, gave a glowing description of the country and its products.

Among the seeds recently received at the Arnold Arboretum from E. H. Wilson, who has been collecting in the mountains of Korea, are those of a new species of lily, the development of which will be watched with intense interest. The seeds have been sown at the Arboretum and also at the Farquhar nurseries in Dedham.

Buddleias asiatica and Farquhari grown as tall standards with beautifully pendant branches of bloom make a lovely picture in the show house of R. & J. Farquhar at Dedham at the present time and the fragrance fills the place with sweet perfume. Another flower blooming now which is not commonly seen is Eriangia tomentosa, a very useful thing for vase use. Azalea Kaempferi, forced specimens, is now in bloom also and the plants show a wide range of colors from pale salmon to bright red. Jasminum primulinum is another attractive gem at present.

In the Senate, on January 8, Mr. Eames of Middlesex presented the petition of Harris A. Reynolds, secretary of the Massachusetts Forestry Association, for the creation of a board of registration of arborists, to consist of three members, appointed by the Governor, for a term of three years. "Arborist" shall apply to all persons commercially engaged in the business of pruning and repairing trees and shrubs and the treatment of them for the control of insects and fungus diseases. Any person who falsely represents himself to be a registered arborist shall be punished by a maximum fine of $500, or by imprisonment for not more than six months, or both.

NEW YORK.

Nicholas Malandre of Malandre Bros., retail florists, is seriously ill at St. Elizabeth's Hospital with a relapse of pneumonia and pleurisy.

Eber Holmes, recently traveling salesman for W. A. Manda, South Orange, N. J., has taken a position in the rose growing establishment of Wm. H. Elliott, Madbury, N. H.

Mayor Hylan has announced the appointment of Wm. F. Grell as Commissioner of Parks of Manhattan and Richmond Boroughs, and President of the Park Board; also John N. Harman as Commissioner of Parks, Brooklyn.

Two employees, said to be father and son, lost their lives by inhaling a poisonous gas given off by some devices widely used as wagon heaters, which they had placed about the greenhouses to save the plants from freezing.

Paper white narcissus bulbs have proved to be the worst kind of an investment this season. There were left over, absolutely unsalable, hundreds of thousands of these bulbs, also many Roman hyacinths, which actually could not be given away.

Charles Schenck, W. A. Manda, G. E. M. Stumpp, Wm. H. Siebrecht, Sr., John Young, W. C. Rickards, A. L. Miller, Walter F. Sheridan, Chas. B. Weathered, Joseph Manda, Frank H. Traendly, Wm. H. Duckham, John B. Nugent, A. S. Burns, Sr., Chas. H. Totty, P. W. Popp, Philip F. Kessler.

Anthony Manda, formerly superintendent for the H. J. Pratt estate, Brooklyn, is now with Andrew Wilson in his down-town Brooklyn florist establishment. Mr. Wilson had rented the Pratt greenhouses and retained Mr. Manda in charge, but inability to obtain any coal obliged them to close down for the present.

W. H. Long has fully recovered his health and activity since the serious operation he went through last year. As catering to the so-called middle class of flower buyers, Mr. Long states that business has been quite good with him thus far. That seems to be the verdict generally in other stores similar in character and location.

Dracæna Rothiana, a specialty with W. A. Manda, is rapidly gaining an enviable repute as a long-keeping and tough foliaged subject for store and dwelling use, standing unharmed under all kinds of neglect. Mr. Manda's dracæna houses are very interesting to visit. The several popular species are having a rapidly increasing call this season.

The New York Florists' Club Alumni Association, composed of the past presidents of the organization, enjoyed a delightful banquet on Saturday night, January 5, at "Billy the Oysterman's," on invitation of President-elect Charles Schenck. Newly elected officers of the club and the chairman of the house committee were also invited. The evening was devoted to suggestions and discussion as to how the coming year in the club's history may be made profitable and instructive. The following named gentlemen were present at this very enjoyable symposium:

Consternation has held sway in the wholesale flower district as news comes in of the freezing up of many

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establishments whose product has been disposed of here, on account of inability to obtain fuel during the unprecedented cold wave. In addition, there are numerous establishments which have shut down a portion of their ranges either voluntarily or under inexorable compulsion on account of scarcity of fuel. Add to this the fact that a number of the wholesale stores were without heat or water for several days, that quantities of flowers shipped in by the growers arrived frozen solid, and that business was at a dead standstill, and the universal grouch which permeated the wholesale district is quite forgivable. But the sun of prosperity will soon be shining again and then all will be salubrious once more. It is a fact that the ice chests proved to be the only place in some stores where the flowers did not freeze.

PHILADELPHIA.

Charles E. Meehan has been on the sick list. Business at South Mole street has been going on as usual under the able management of Charles Lilly.

Corporal John H. Earl of the 111th Infantry at Camp Hancock (son of Howard M. Earl of Burpee's) is one of the 29 fortunate out of 482 applicants for the appointment of officer in the training school, January 4, 1918.

We are glad to report one more cheerful note in the holiday record. Mr. Cartledge, of Pennock Bros., says the Christmas business and the New Year's business were both good with them—in fact far better than expected.

The new seed book for 1918 by the William Henry Maule Co. is one of the hits of the season and well sustains the reputation of this house in all that is brilliant, progressive and honest. Manager Edward C. Dungan well deserves the plaudits of his compeers for this latest masterpiece.

John Burton has been laid up for two weeks and like his friend John Westcott does not venture far from the stove these days. Even in the usually mild climate of Chestnut Hill it was ten below zero last Sunday. "Coldest in 37 years" the weather man says for this vicinity.

A. M. Campbell reports a wayfarer calling at Wayne for a night's lodging in the stable. Asked him why he did not go down to Eddystone and get big wages. He said they were not paying the union scale and he was a man of principle. "Principles, lady! I aint got none; I'm a showman," says Artemas Ward.

CHICAGO.

The J. D. Thompson Carnation Co., of Joliet, Ill., lost heavily in a freeze up which occurred at their plant a week ago. All the carnation plants are reported killed, three tomato houses alone being in operation now.

Vaughan's Greenhouses at Western Springs suffered a loss by fire which started in one of their large warehouses on Thursday morning. In spite of all efforts to extinguish the blaze it spread to the second one and burned two days. The buildings were filled with bulbs and other stock and the loss will be heavy.

Big Storm Hits Chicago.

Probably the snow storm that hit Chicago was the worst in the experience of the oldest greenhouse men here. A few inches of snow fell on Saturday but not enough to cause any distress, but early Sunday morning a genuine blizzard overtook the city and the rapidly falling snow was piled high by the fierce wind which never ceased throughout the day. The exact location of the different ranges played a big part in the story of loss, from which it seems few escaped. Reports are coming in rapidly and no doubt are more or less exaggerated, but it is safe to say that all the large growers in the city and vicinity suffered the loss of houses crushed in by the tons of snow which fell or was driven upon them. It will be several days before the whole story of the storm will be known. Some rapid work of putting in extra braces saved some houses or the loss would have been even greater.

Manhattan, Kan.—C. A. Scott's greenhouse has been purchased by Ken Kimble.

CLASSIFIED DIRECTORY

Advertisements in this Department, Ten Cents a Line, Net

BULBS

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK BRANCH, 8-10 Bridge St.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for $1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. Stock For Sale. JOHN P. ROONEY, New Bedford, Mass.

Orders booked at any time for Fall or Spring delivery. Wholesale and Retail. Send for Catalog. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

New Paeony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DAISIES

Daisies (Bellis) Monstrosa, white and pink, also Longfellow and Snowball. Thinly sown field-grown seedlings, $2.50 per 1000, $11.50 per 5000, cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

GLASS

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

PANSY PLANTS

Pansy Plants, Strong and stocky. Strains unsurpassed by any for Size of Bloom or Colors. $2.50 per 1000, $11.50 per 5000. Cash. Satisfaction or your money back. BRILL CELERY GARDENS, Kalamazoo, Mich.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

ROSES

Roses, Cannas and Shrubs. THE CONARD & JONES COMPANY, West Grove, Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

VINES

Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

WIRE WORK

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

SITUATIONS WANTED

SITUATION WANTED—By man with 15 years' practical experience in Greenhouses, Ornamental Trees and Shrubs, Perennials. Successful propagator. Thorough knowledge of Vegetables, outdoor and under glass, and in care and management of Fruit Trees. Married, 38, small family. Good references. State wages, etc. "C. R. W.," care HORTICULTURE.

SOW BUGS versus SLUG SHOT

After reading the article headed "An Army of Sow Bugs," in the Review for May 10, it occurred to me that the growers whose stocks have been attacked by Sow Bugs might be interested in the remedy I used successfully in exterminating these pests some time ago. I had a good crop of Sow Bugs in my Carnation house and asked Mr. Benjamin Hammond, of Beacon, N. Y., for a good exterminator. Mr. Hammond recommended one of his preparations—SLUG SHOT—and told me to dust it between the plants, under the benches and along the walks. I did so and the results were gratifying. The bugs were cleaned out in short order, and I certainly recommend SLUG SHOT to every Florist who finds these bugs in his houses. ALEXANDER A. LAUB, Florist.

New Hamburg, N. Y., May, 1917.

HAMMOND'S SLUG SHOT was first tested against SOW BUGS at Nyack, N. Y., in 1885, and it holds good

HAMMOND'S PAINT AND SLUG SHOT WORKS

Beacon, N. Y., U. S. A.

SOLD BY SEED DEALERS OF AMERICA

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.; ½ Gallon, $1.50; Gallon, $2.50; 5 Gallon Can, $10.00; 10 Gallon Can, $20.00. Directions on package.

LEMON OIL COMPANY

Dept. 2. 420 W. Lexington St., Baltimore, Md.

NEW PUBLICATION.

THE PRINCIPLES AND PRACTICE OF PRUNING. By M. G. Kains, Lecturer on Horticulture, Columbia University.

This book, just out, places the garden culturist, whether professional or amateur, under still greater obligation to its painstaking author who has already many friends among our readers for his previously introduced works on practical horticultural topics. It comes out at a time when the American people are beginning to take a very deep interest in gardening work and there is no part of that industry on which better education is needed than that of pruning. Defective pruning is seen everywhere, unfortunately, and the lack of knowledge thus manifested is not confined to the amateur. Indeed there is much yet to be investigated—plenty to be learned and verified and plenty to be disproved, of the old rule of thumb methods which are slavishly followed by even so-called experts. The author, who has spent many years in conscientious study and research has been able in this lucid volume to clear up many confused points with convincing accuracy and has given us a book of rare educational value. Printed on fine coated paper, its illustrations, of which there are over four hundred pen and ink sketches and photographic reproductions, are brought out with great clearness of detail and add much to the value and attractiveness of the book. Further description of the contents, etc., will be found in the advertisement on another page of this paper and we predict a large demand. Copies may be ordered from HORTICULTURE at the publisher's price, $2.00, postage paid.

Aphine

The Insecticide that kills plant Lice of many species.

The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.
Quart, $1.00; Gallon, $3.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.
Quart, $1.00; Gallon, $3.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.
Quart, $1.00; Gallon, $3.00.

SOLD BY DEALERS.

Aphine Manufacturing Co.

MADISON, N. J.

USE WIZARD BRAND CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded
Cattle Manure
Pulverized
Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: WIZARD BRAND in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
84 Union Stock Yard, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

The following pledge to the National Food Administrator adopted by the Iowa nurserymen at their meeting in Des Moines last month strikes us as sensible and patriotic:

"Resolved, That we nurserymen in conference assembled tender our services gratuitously to the owners of fruit trees everywhere in the matter of instruction for the immediate rejuvenation of barren and under-productive trees to make them fully productive. We urge the agricultural colleges and nurserymen everywhere and wherever possible to increase the production of fruit as food from present orchards for the winning of America's war.

"We respectfully suggest that the National and State food administrators include in all their propaganda for increased food production this agitation and admonition to spray, prune, cultivate, fertilize and otherwise so handle as to bring into full and immediate production all orchards and fruit trees of whatever kind or wherever located.

"We respectfully suggest that this resolution be given wide and general dissemination by all food administrators, publications and other interests working for the winning of the war."

N A C

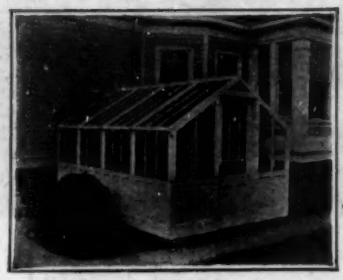
Use N. A. C. Products for more profitable results. Send for prices on our complete list of Fertilizers and Insecticides.

HORTICULTURAL DEPT.,
Harry A. Bunyard, Mgr.

NITRATE AGENCIES CO.
106 Pearl St., New York

Sectional Greenhouses
For Commercial and Private Growers

Anyone who can handle a hammer can assemble this greenhouse. We furnish all the necessary hardware. When once erected it can remain as a permanent greenhouse, or it can be taken apart and re-erected elsewhere if necessary.



The house illustrated stands 8½ ft. wide by 12 ft. long. It is made of Gulf-Cypress and can be attached to the residence or garage, or put up as a separate detached house. Has two glass ends and doors. Equipped with 2 plant benches, ventilating arrangement both sides.

Has plenty of head room and wide walk. This same house can easily be made larger at anytime, by adding our ready made, exact fitting units.
We build greenhouses of all styles and sizes and go anywhere in the United States to submit plans and prices.

Metropolitan Material Co 1297-1325 Flushing Ave., Brooklyn, N.Y.

GREENHOUSES
IRON FRAME
PIPE FRAME
HOT BED SASH-GLASS
PAINT, Etc.
WRITE FOR PRICES
The Foley Greenhouse Mfg Co.
3275 W. 31ST ST., CHICAGO, ILL.

MASTICA

For Greenhouse Glazing
USE IT NOW
F.O. PIERCE CO.
12 W. BROADWAY
NEW YORK
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

DREER'S

FLORIST SPECIALTIES
New Brand New Style
"RIVERTON" HOSE
Furnished in lengths up to 100 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 17 c.
Reel of 300 ft. " 16½c.
2 Reels, 1000 ft. " 16 c.
¾-inch, " 15 c.
Reels, 500 ft., " 14½c.
Couplings furnished
HENRY A. DREER
714-716 Chestnut St., PHILADELPHIA, Pa.

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Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
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Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER
714 Chestnut Street, Philadelphia.

Hagerstown, Md.—M. I. Brewer, who conducts The Floral Shop in the Public Square in the Humrichouse Building which was destroyed by fire on December 27, has made his adjustment with the insurance company. The temporary roof over his store has been completed. His damage ran to about $600.

IMPRESSIVE COAL FIGURES.

Testifying before the Senate Sub Committee, Harry A. Garfield, U. S. Fuel Administrator announced facts concerning the nation's fuel situation that are of public concern and should specially interest persons having an available supply of wood.

Production of anthracite coal for 1917 is estimated at 84,000,000 tons, an increase of about 11,000,000 tons over 1916. Bituminous coal mined in the United States during 1917 was approximately 552,770,400 tons or 50,000,000 tons more than the previous year. The total increase in supply was about 61,000,000 tons, but the demand increased 100,000,000 tons. Most of the extra demand has arisen since April, 1917, when the United States entered the war, and is largely for the needs of the government, munition plants, and public utilities supplying power to war industries.

The Fuel Administration has used its powers to stabilize labor conditions and prices so as to insure a large steady coal output for the future. But because of excessive demand, Dr. Garfield is also urging conservation of coal in every way possible and asking for a widespread substitution of wood as a fuel particularly in rural districts.

GREENHOUSES BUILDING OR CONTEMPLATED.

Caldwell, Ida.—A. L. Murphy, two houses each 20 x 100.

Pittsfield, Mass.—Viale Floral Co., Lenox Ave., two houses.

Fishers Island, N. Y.—F. M. Van Name, Hitchings house, completed.

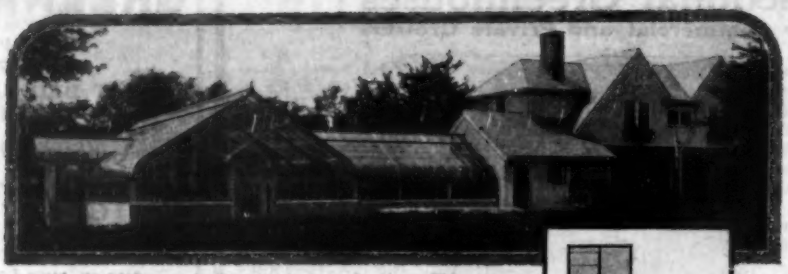
Bicknell, Ind.—Cottage Greenhouses, Moninger house 25 x 50, completed.

North Philipsburg, Pa.—Watchusgro Plant Farm, two houses 30 x 100, one house 12 x 60, Deitsch construction.

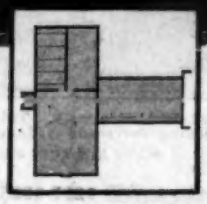
Worcester, Mass.—A radiator in the store of the Quarrey Floral Co., 150 Franklin street, burst on December 31, filling the place up with steam and destroying totally plants and flowers valued at $150. It was learned that the radiator froze Sunday night and was disconnected. When it thawed all the hot water went over the floor. The steam also cracked a plate glass door. Damage was covered by insurance.

When writing to advertisers kindly mention HORTICULTURE.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars, address. JOHN G. ESLER, Sec., Saddle River, N. J.



Erected for Mr. A. Koehland, Beverly Cove, Mass.



This Layout Cuts Coal Costs

COST of coal counts these days. That's why we are taking special pains in our plans to lay them out to cut coal costs.

The one above does.

Does, because of the close grouping of greenhouses, workroom, garage and gardeners and chauffeurs apartments. The greenhouse is shielded from north winds by the two-story garage.

Grouping all the buildings completely together, does away with much surface exposed to the weather.

The one boiler can heat the entire layout: and everybody knows that one large boiler can be run with decidedly less coal than two or three small ones.

Since we have been giving this coal cost cutting more exacting consideration, many economies have been worked out which we may be able to work in on a layout for you.

Talk it over with us and see.

Hitchings and Company

NEW YORK, 1170 Broadway BOSTON, 49 Federal Street PHILADELPHIA, 40 S. 15th Street

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STANDARD EQUIPMENT is known to be the ADVANCE

The Years of Satisfactory Service have won it its place. *There are no substitutes.*

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Also we have our complete line of GREENHOUSE FITTINGS which are always so handy.

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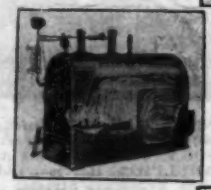

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